

# JPL: From Caltech students testing rockets to the planets and universe in our lifetimes



Caltech students (1936)



Mars Exploration Rovers (2004 – present)



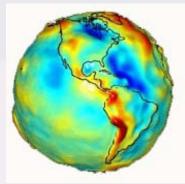
Missiles (1940s)



Spitzer Space Telescope (2004 – present)

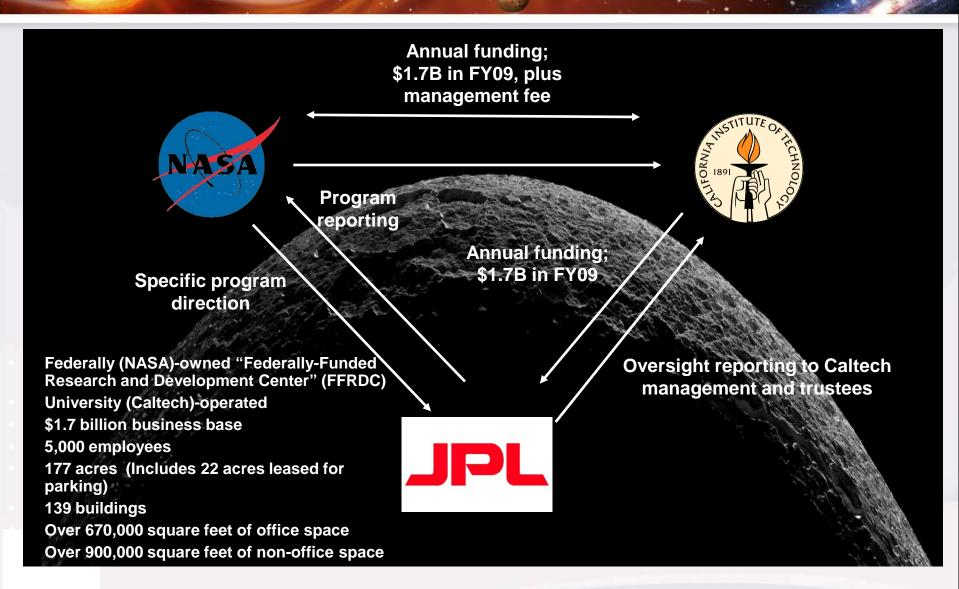


**Explorer 1 (1958)** 

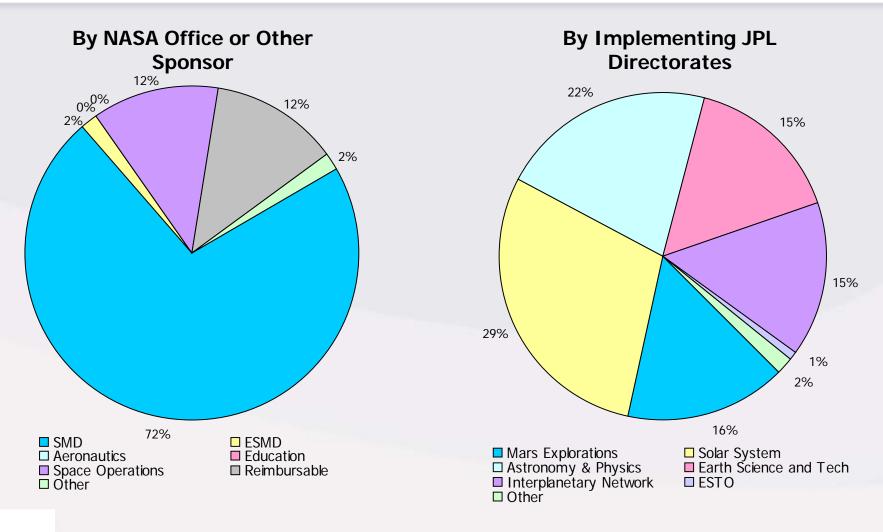


Earth Science (1978 – now)

## Caltech operates JPL for NASA



## Distribution of \$1.7B for FY09



NASA Percentages based on FY 09 Office of Management and Budget (OMB) "Submit Budget" dated 11/08

2<sup>nd</sup> Annual NASA/JPL Small Business Symposium and Awards Ceremony

#### A broad spectrum of acquisition opportunities exist

- Commodity based requirements in support of institutional and program needs
- Facility based requirements to improve and maintain the infrastructure of the Laboratory
- Support service requirements to assist in operational needs
- Project requirements in support of NASA's Mission

#### **COMMODITY BASED REQUIREMENT**

#### **Scientific Workstations**

Includes servers and related hardware and software

Current subcontract expires – May 2010

RFP released - November 13, 2009

Contract Type – FFP via electronic catalogue

Estimated Value - \$6.4M

Period of Performance – 2 year base with 3 option years

## **FACILITY BASED REQUIREMENTS**

#### **Deep Space Antennas**

34m Beam Wave Guide Antenna at Canberra, Australia

RFP released – July 2010

Contract Type - FFP

Estimated Value - \$25M

Options for additional antennas depending upon funding for locations in Australia, Spain and USA

## **FACILITY BASED REQUIREMENTS**

#### **Construction of Data Center**

Modify existing floor of space flight center to house Laboratory Data

**Center Computers** 

RFP released – January 2010

Contract Type – FFP Construction

Estimated Value - \$5.5M

#### SUPPORT SERVICE REQUIREMENTS

#### **Security and Fire Services**

Provide security and fire, hazmat, emergency medical and rescue service personnel for the Laboratory

RFP released – December 2009

Contract Type – FFP Award Fee

Estimated Value - \$8M per year

Period of Performance – 5 year base with 5 option years

#### PROJECT REQUIREMENTS

- Various projects offer subcontracting opportunities
- Requirements include:
  - Mechanical, radar, telecommunications, command & data handling, guidance & navigation control and propulsion
- Requests for Proposals will be issued throughout 2010 and into 2011
- Source selection will be based on price and evaluation of capabilities

#### REPRESENTATIVE PROJECTS

## Soil Moisture Active & Passive Mission (SMAP)

Global high resolution mapping of soil moisture

## **HyspIRI**

Measurement of carbon cycles and Earth ecosystems

## **Surface Water Ocean Topographer (SWOT)**

Global measurement of the world's oceans and freshwater bodies elevations

# Deformation Ecosystems Structure and Dynamics of Ice (DESDnyl)

Study of hazards and global environmental changes

#### REPRESENTATIVE SMAP PROCUREMENTS

## **On-Orbit Balancing Mechanism Actuators**

Estimated Value - \$400K

RFP Release – October 2010

#### Radar

Estimated Value - \$TBD

RFP Release – August 2010

#### S-Band Transponders and Diplexer

Estimated Value - \$3.5M

RFP Release – March 2010

#### **X-Band Transmitters**

Estimated Value - \$3.5M

RFP Release – February 2010

## REPRESENTATIVE SMAP PROCUREMENTS (cont.)

#### S – Band Antennas

Estimated Value - \$200K

RFP Release – April 2010

#### X – Band Antennas

Estimated Value - \$200K

RFP Release – June 2010

#### **Co-Ax Switches**

Estimated Value - \$TBD

RFP Release - July 2010

#### **Reaction Wheels**

Estimated Value - \$3M

RFP Release – August 2010

## Additional requirements will be occur in FY 11

## REPRESENTATIVE HsypIRI PROCUREMENTS

## **Imaging Spectrometer Study**

RFP Release – Mid 2010

## **Multispectral Thermal Infrared Study**

RFP Release – Mid 2010

#### REPRESENTATIVE SWOT PROCUREMENTS

**Ka – Band Radar Interferometer Study** RFP Release – Mid 2010

**Dual Frequency Thermal Infrared Imager Study** RFP Release – Mid 2010

## REPRESENTATIVE DESDnyl PROCUREMENTS

# L – Band Radar Interferometric Synthetic Aperture Radar Study

RFP Release - Mid 2010

## **Multiple Bean Lidar Study**

RFP Release – Mid 2010

## "We mean business for small business"

The JPL Small Business Program ensures that Small, Small Disadvantaged, Woman-Owned and HUBZone businesses along with Historically Black Universities and Colleges have equitable opportunities to compete for subcontracts.

Outreach is an important part of JPL's small business program

- > 21 High-Tech Conferences
- > 12 Space Science Symposia
- 12 Small Business Round Tables
- 13 Science Forums

#### Awards to small businesses for the past nine years:

>	Small Businesses:	\$1.5B
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- Small Disadvantaged Businesses: \$400M
- Women-owned Businesses: \$252M
- Veteran-owned Businesses: \$54M
- > HubZone \$33M

#### How to contact JPL

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